

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P220250

Luminaire Tested: **Z3-WL-3L30-LD5-UNV-24**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P220250
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35865)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: Z3-WL-3L30-LD5-UNV-24
Description: CLASS Z3 2X4 RECESSED LED LUMIANIRE
WITH A FROSTED PRISMATIC ROUND LENS
Light Source: (168) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5009.9 lumens
Efficiency: N/A
Efficacy: 124.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.31 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

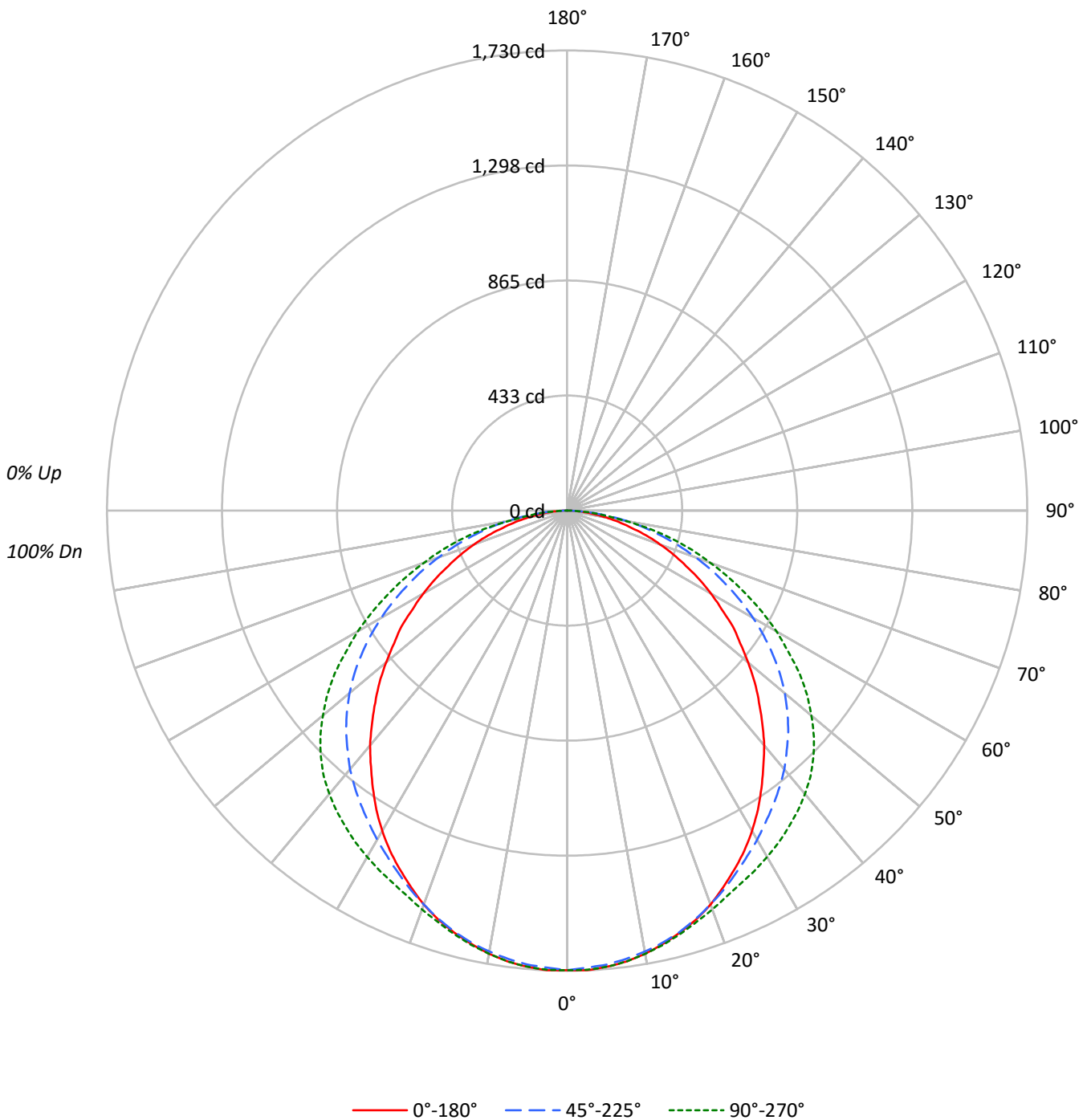
Input Watts (W): 40.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83
2	98	90	83	77	96	88	82	76	85	79	74	81	77	73	78	74	71	69
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	46	57	50	45	55	49	45	42
6	69	56	47	40	67	55	46	40	53	45	40	51	45	39	50	44	39	37
7	64	51	42	36	63	50	41	35	48	41	35	47	40	35	45	39	35	33
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	38	30	26	37	30	25	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2325	2325	2325
5°	2325	2314	2325
10°	2311	2300	2311
15°	2287	2283	2294
20°	2257	2257	2285
25°	2210	2232	2295
30°	2161	2220	2335
35°	2091	2219	2385
40°	2024	2231	2443
45°	1941	2237	2492
50°	1859	2236	2510
55°	1784	2215	2502
60°	1682	2172	2447
65°	1569	2101	2358
70°	1464	2017	2251
75°	1298	1908	2115
80°	1141	1781	1691
85°	969	1405	1379



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.1	3.3
10°-20°	463.5	9.3
20°-30°	697.9	13.9
30°-40°	850.3	17.0
40°-50°	901.4	18.0
50°-60°	828.4	16.5
60°-70°	634.6	12.7
70°-80°	370.8	7.4
80°-90°	100.0	2.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1324.5	26.4
0°-40°	2174.8	43.4
0°-60°	3904.5	77.9
0°-90°	5009.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5009.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1728	1728	1728	1728	1728	
5°	1722	1718	1713	1722	1722	163
15°	1642	1642	1639	1647	1647	463
25°	1488	1495	1503	1535	1546	686
35°	1273	1290	1351	1426	1452	797
45°	1020	1060	1176	1277	1310	788
55°	761	820	944	1037	1067	676
65°	493	557	660	728	741	491
75°	250	306	367	404	407	269
85°	63	88	91	93	89	72
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1728.1	1728.1	1728.1	1728.1	1728.1
2.5°	1729.7	1726.4	1719.8	1728.1	1728.1
5°	1721.5	1718.2	1713.2	1721.5	1721.5
7.5°	1709.9	1706.6	1700.0	1709.9	1709.9
10°	1691.7	1690.1	1683.4	1693.4	1691.7
12.5°	1668.6	1668.6	1663.6	1671.9	1671.9
15°	1642.1	1642.1	1638.8	1647.1	1647.1
17.5°	1612.3	1612.3	1609.0	1620.6	1620.6
20°	1576.0	1572.6	1576.0	1592.5	1595.8
22.5°	1533.0	1534.6	1541.2	1562.7	1569.3
25°	1488.3	1494.9	1503.2	1534.6	1546.2
27.5°	1442.0	1448.6	1465.2	1509.8	1526.3
30°	1390.7	1399.0	1428.8	1483.3	1503.2
32.5°	1334.5	1347.7	1389.1	1456.9	1480.0
35°	1273.3	1289.9	1351.1	1425.5	1451.9
37.5°	1212.1	1235.3	1311.4	1395.7	1423.8
40°	1152.6	1177.4	1270.0	1361.0	1390.7
42.5°	1086.5	1119.5	1222.1	1319.6	1354.4
45°	1020.3	1060.0	1175.8	1276.6	1309.7
47.5°	957.5	1000.5	1122.8	1227.0	1258.4
50°	888.0	944.3	1068.3	1167.5	1198.9
52.5°	820.2	881.4	1008.7	1109.6	1136.1
55°	760.7	820.2	944.3	1036.9	1066.6
57.5°	687.9	759.0	876.4	964.1	983.9
60°	625.1	686.3	807.0	888.0	909.5
62.5°	560.6	626.7	735.9	805.3	826.8
65°	492.8	557.3	659.8	727.6	740.8
67.5°	433.3	496.1	590.4	641.6	658.2
70°	372.1	426.6	512.6	563.9	572.2
72.5°	312.5	367.1	441.5	481.2	492.8
75°	249.7	305.9	367.1	403.5	406.8
77.5°	198.4	246.4	299.3	319.2	320.8
80°	147.2	190.2	229.9	228.2	218.3
82.5°	100.9	133.9	155.4	152.1	145.5
85°	62.8	87.6	91.0	92.6	89.3
87.5°	28.1	34.7	38.0	38.0	36.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)